



**Microbiology Test Report**

**Customer Details**

Report No. WA-R-L-2006-12433

**Crystalline Cleaning & Environmental Services**

P.O.Box: 131463 Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE.



Request No.	: WA-Q-L-2006-01896	Sample No.	: WA-S-L-2006-12007
Sampling Date	: 25/06/2020	Report Date.	: 29/6/2020
Analysis Start Date.	: 25/06/2020	Analysis End Date.	: 28/6/2020
Sample Location.	: Zayed University	Sampled By	: Jameel
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 1046	Sampling Method	: APHA 9060 A&B
Temperature °C	: 33.1°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: SV1 - Service Building
Sampling Point	: Raw Water Tank - Groundfloor	Preservation	: 4-8°C
Sample Description	: Domestic Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	Zero
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml

Note : Not Detected=<1CFU

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

**Remarks :The tested results of the sample are found to be satisfactory within the specified limits.**

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Camden Chorleywood Food Research Association.



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Testing - NAL 034

### Microbiology Test Report

Report No. : WA-R-L-2006-12433

Signed for and on behalf of Wimpey Laboratories

**Dr. Suresh Murugan Ph.D**

Senior Microbiologist



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**Legionella Test Report**

Report No. WA-R-L-2006-12443

**Customer Details**

**Crystalline Cleaning & Environmental Services**

P.O.Box: 131463 Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE.



Request No.	: WA-Q-L-2006-01896	Sample No.	: WA-S-L-2006-12017
Sampling Date	: 25/06/2020	Report Date.	: 6/7/2020
Analysis Start Date.	: 25/06/2020	Analysis End Date.	: 5/7/2020
Sample Location.	: Zayed University	Sampled By	: Jameel
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 1046	Sampling Method	: BS 7592
Temperature °C	: 33.1°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: SV1 - Service Building
Sampling Point	: Raw Water Tank - Groundfloor	Preservation	: 10°C
Sample Description	: Domestic Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	Zero/L

Note : Limit of Detection=<1CFU/L

Procedure: WSOP-MB-0051 Direct Placing of Membrane on BCYE+L-Cysteine/Membrane Filter Followed by Washing Procedure in Funnel.

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

**Remarks :The tested result of the sample is found to be satisfactory within the specified limit.**

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Units, ISO-International Organization for Standardization, BS-British Standards.

**Signed for and on behalf of Wimpey Laboratories**

**Dr. Suresh Murugan Ph.D**

Senior Microbiologist

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## CONSULTING SERVICE REPORT

<b>CUSTOMER: SERCO FACILITY MANAGEMENT.</b>	<b>To: MR. MUHAMMED AFSHAR OPERATIONS ENGINEER</b>	<b>DATE: 25-06-2020</b>
<b>SITE: ZAYED UNIVERSITY, ABU DHABI</b>	<b>Copy: SERCO</b>	<b>LOCATION: SV1 - Raw Water Tank</b>

### WATER ANALYSIS

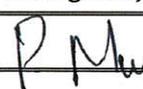
PARAMETER	CONTROL LIMITS	POTABLE WATER			
pH at 25°C	7.0 - 9.2	8.36			
Conductivity at 25°C, µs/cm	1600 Max.	214			
Total Dissolved Solids (TDS)	1000 Max.	139			
Total Hardness, ppm as CaCO <sub>3</sub>	300 Max.	61			
Calcium Hardness, ppm as CaCO <sub>3</sub>	200 Max.	53			
Chlorides (Cl <sup>-</sup> ), mg/l	250 Max.	51			
Sulphate (SO <sub>4</sub> ), mg/l	250 Max.	<10			
Copper (Cu), mg/l	1 Max.	<0.05			
Aluminum (Al), mg/l	0.2 Max.	<0.05			
Zinc (Zn), mg/l	5 Max.	<0.05			
Nitrate (NO <sub>3</sub> -N) mg/l	50 Max.	<1.0			
Nitrite (NO <sub>2</sub> -) mg/l	3.0 Max.	<0.1			
Fluorides (F)	1.5 Max.	<0.05			
Potassium (K)	12 Max.	<5.0			

#### Treatment Residuals

Odor	Unobjectionabl	ND			
Turbidity in NTU	4.0 Max.	<1			

*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity (µmhos)*

<b>COMMENTS:</b>	<b>ACTION:</b>
The pH and Conductivity/TDS are found satisfactory. ⇨	No action recommended.

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
			--	
<b>Service Engineer:</b>	<b>Murugaraaj</b>	<b>Client:</b>	<b>Mr. MUHAMMED AFSHAR</b>	
<b>Signature:</b>		<b>Signature:</b>		





### Microbiology Test Report

Report No. WA-R-L-2006-12434

#### Customer Details

#### Crystalline Cleaning & Environmental Services

P.O.Box: 131463 Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE.



Request No.	: WA-Q-L-2006-01896	Sample No.	: WA-S-L-2006-12008
Sampling Date	: 25/06/2020	Report Date.	: 29/6/2020
Analysis Start Date.	: 25/06/2020	Analysis End Date.	: 28/6/2020
Sample Location.	: Zayed University	Sampled By	: Jameel
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 1046	Sampling Method	: APHA 9060 A&B
Temperature °C	: 30.4°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: SV1 - Service Building
Sampling Point	: Filter Water Tank - Groundfloor	Preservation	: 4-8°C
Sample Description	: Domestic Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	Zero
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml

Note : Not Detected=<1CFU

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

**Remarks :The tested results of the sample are found to be satisfactory within the specified limits.**

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Camden Chorleywood Food Research Association.



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Testing - NAL 034

### Microbiology Test Report

Report No. : WA-R-L-2006-12434

Signed for and on behalf of Wimpey Laboratories

**Dr. Suresh Murugan Ph.D**

Senior Microbiologist



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### Legionella Test Report

#### Customer Details

Report No. WA-R-L-2006-12444

#### Crystalline Cleaning & Environmental Services

P.O.Box: 131463 Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE.



Request No.	: WA-Q-L-2006-01896	Sample No.	: WA-S-L-2006-12018
Sampling Date	: 25/06/2020	Report Date.	: 6/7/2020
Analysis Start Date.	: 25/06/2020	Analysis End Date.	: 5/7/2020
Sample Location.	: Zayed University	Sampled By	: Jameel
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 1046	Sampling Method	: BS 7592
Temperature °C	: 30.4°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: SV1 - Service Building
Sampling Point	: Filter Water Tank - Groundfloor	Preservation	: 10°C
Sample Description	: Domestic Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	Zero/L

Note : Limit of Detection=<1CFU/L

Procedure: WSOP-MB-0051 Direct Placing of Membrane on BCYE+L-Cysteine/Membrane Filter Followed by Washing Procedure in Funnel.

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

**Remarks :The tested result of the sample is found to be satisfactory within the specified limit.**

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Units, ISO-International Organization for Standardization, BS-British Standards.

#### Signed for and on behalf of Wimpey Laboratories



**Dr. Suresh Murugan Ph.D**

Senior Microbiologist

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## CONSULTING SERVICE REPORT

<b>CUSTOMER: SERCO FACILITY MANAGEMENT.</b>		<b>To: MR. MUHAMMED AFSHAR OPERATIONS ENGINEER</b>		<b>DATE: 25-06-2020</b>	
<b>SITE: ZAYED UNIVERSITY, ABU DHABI</b>		<b>Copy: SERCO</b>		<b>LOCATION: SV1 - Filter Water tank</b>	
WATER ANALYSIS					
PARAMETER	CONTROL LIMITS	POTABLE WATER			
pH at 25°C	7.0 - 9.2	8.19			
Conductivity at 25°C, µs/cm	1600 Max.	232			
Total Dissolved Solids (TDS)	1000 Max.	150			
Total Hardness, ppm as CaCO <sub>3</sub>	300 Max.	59			
Calcium Hardness, ppm as CaCO <sub>3</sub>	200 Max.	56			
Chlorides (Cl <sup>-</sup> ), mg/l	250 Max.	50			
Sulphate (SO <sub>4</sub> ), mg/l	250 Max.	<10			
Copper (Cu), mg/l	1 Max.	<0.05			
Aluminum (Al), mg/l	0.2 Max.	<0.05			
Zinc (Zn), mg/l	5 Max.	<0.05			
Nitrate (NO <sub>3</sub> -N) mg/l	50 Max.	<1.0			
Nitrite (NO <sub>2</sub> -) mg/l	3.0 Max.	<0.1			
Fluorides (F)	1.5 Max.	<0.05			
Potassium (K)	12 Max.	<5.0			
Treatment Residuals					
Odor	Unobjectionabl	ND			
Turbidity in NTU	4.0 Max.	<1			
<i>All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity (µmhos)</i>					
<b>COMMENTS:</b>			<b>ACTION:</b>		
The pH and Conductivity/TDS are found satisfactory. ⇨			No action recommended.		
INVENTORY LEVELS			DOSAGE SCHEDULE		
Chemical	Quantity	Chemical	Present Dosage	Revised Dosage	
			--		
<b>Service Engineer:</b>	Murugaraaj		<b>Client:</b>	Mr. MUHAMMED AFSHAR	
<b>Signature:</b>			<b>Signature:</b>		





**Microbiology Test Report**

**Customer Details**

Report No. WA-R-L-2006-12435

**Crystalline Cleaning & Environmental Services**

P.O.Box: 131463 Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE.



Request No.	: WA-Q-L-2006-01896	Sample No.	: WA-S-L-2006-12009
Sampling Date	: 25/06/2020	Report Date.	: 29/6/2020
Analysis Start Date.	: 25/06/2020	Analysis End Date.	: 28/6/2020
Sample Location.	: Zayed University	Sampled By	: Jameel
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 1046	Sampling Method	: APHA 9060 A&B
Temperature °C	: 31.1°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: MDH Male Wash Room
Sampling Point	: cold outlet	Preservation	: 4-8°C
Sample Description	: Domestic Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/mi	Not Detected	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	Zero
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml

Note : Not Detected=<1CFU

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

**Remarks :The tested results of the sample are found to be satisfactory within the specified limits.**

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Camden Chorleywood Food Research Association.



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Testing - NAL 034

### Microbiology Test Report

Report No. : WA-R-L-2006-12435

Signed for and on behalf of Wimpey Laboratories

**Dr. Suresh Murugan Ph.D**

Senior Microbiologist



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**Legionella Test Report**

**Customer Details**

Report No. WA-R-L-2006-12445

**Crystalline Cleaning & Environmental Services**

P.O.Box: 131463 Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE.



Request No.	: WA-Q-L-2006-01896	Sample No.	: WA-S-L-2006-12019
Sampling Date	: 25/06/2020	Report Date.	: 6/7/2020
Analysis Start Date.	: 25/06/2020	Analysis End Date.	: 5/7/2020
Sample Location.	: Zayed University	Sampled By	: Jameel
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 1046	Sampling Method	: BS 7592
Temperature °C	: 31.1°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: MDH Male Wash Room
Sampling Point	: Cold Outlet	Preservation	: 10°C
Sample Description	: Domestic Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	Zero/L

Note : Limit of Detection=<1CFU/L

Procedure: WSOP-MB-0051 Direct Placing of Membrane on BCYE+L-Cysteine/Membrane Filter Followed by Washing Procedure in Funnel.

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

**Remarks :The tested results of the sample are found to be satisfactory within the specified limits.**

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Units, ISO-International Organization for Standardization, BS-British Standards.

**Signed for and on behalf of Wimpey Laboratories**

**Dr. Suresh Murugan Ph.D**

Senior Microbiologist



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## CONSULTING SERVICE REPORT

<b>CUSTOMER: SERCO FACILITY MANAGEMENT.</b>	<b>To: MR. MUHAMMED AFSHAR OPERATIONS ENGINEER</b>	<b>DATE: 25-06-2020</b>
<b>SITE: ZAYED UNIVERSITY, ABU DHABI</b>	<b>Copy: SERCO</b>	<b>LOCATION: Male Side MDH, Male Washroom</b>

### WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WATER			
pH at 25°C	7.0 - 9.2	8.34			
Conductivity at 25°C, µs/cm	1600 Max.	243			
Total Dissolved Solids (TDS)	1000 Max.	157			
Total Hardness, ppm as CaCO <sub>3</sub>	300 Max.	61			
Calcium Hardness, ppm as CaCO <sub>3</sub>	200 Max.	58			
Chlorides (Cl <sup>-</sup> ), mg/l	250 Max.	49			
Sulphate (SO <sub>4</sub> ), mg/l	250 Max.	<10			
Copper (Cu), mg/l	1 Max.	<0.05			
Aluminum (Al), mg/l	0.2 Max.	<0.05			
Zinc (Zn), mg/l	5 Max.	<0.05			
Nitrate (NO <sub>3</sub> -N) mg/l	50 Max.	<1.0			
Nitrite (NO <sub>2</sub> -) mg/l	3.0 Max.	<0.1			
Fluorides (F)	1.5 Max.	<0.05			
Potassium (K)	12 Max.	<5.0			

#### Treatment Residuals

Odor	Unobjectionabl	ND			
Turbidity in NTU	4.0 Max.	<1			

*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity (µmhos)*

<b>COMMENTS:</b>	<b>ACTION:</b>
The pH and Conductivity/TDS are found satisfactory. ⇨	No action recommended.

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
			--	
<b>Service Engineer:</b>	<b>Murugaraaj</b>	<b>Client:</b>	<b>Mr. MUHAMMED AFSHAR</b>	
<b>Signature:</b>		<b>Signature:</b>		





### Microbiology Test Report

#### Customer Details

#### Crystalline Cleaning & Environmental Services

P.O.Box: 131463 Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE.

Report No. WA-R-L-2006-12436



Request No.	: WA-Q-L-2006-01896	Sample No.	: WA-S-L-2006-12010
Sampling Date	: 25/06/2020	Report Date.	: 29/6/2020
Analysis Start Date.	: 25/06/2020	Analysis End Date.	: 28/6/2020
Sample Location.	: Zayed University	Sampled By	: Jameel
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 1046	Sampling Method	: APHA 9060 A&B
Temperature °C	: 32.6°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: SV2- Male Wash Room
Sampling Point	: Cold Outlet	Preservation	: 4-8°C
Sample Description	: Domestic Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	Zero
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml

Note : Not Detected=<1CFU

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

**Remarks :The tested results of the sample are found to be satisfactory within the specified limit.**

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Camden Chorleywood Food Research Association.



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Testing - NAL 034

### Microbiology Test Report

Report No. : WA-R-L-2006-12436

Signed for and on behalf of Wimpey Laboratories

**Dr. Suresh Murugan Ph.D**

Senior Microbiologist

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### Legionella Test Report

#### Customer Details

#### Crystalline Cleaning & Environmental Services

P.O.Box: 131463 Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE.

Report No. WA-R-L-2006-12446



Request No.	: WA-Q-L-2006-01896	Sample No.	: WA-S-L-2006-12020
Sampling Date	: 25/06/2020	Report Date.	: 6/7/2020
Analysis Start Date.	: 25/06/2020	Analysis End Date.	: 5/7/2020
Sample Location.	: Zayed University	Sampled By	: Jameel
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 1046	Sampling Method	: BS 7592
Temperature °C	: 32.6°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: SV2 Male Wash room
Sampling Point	: Cold Outlet	Preservation	: 10°C
Sample Description	: Domestic Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	Zero/L

Note : Limit of Detection=<1CFU/L

Procedure: WSOP-MB-0051 Direct Placing of Membrane on BCYE+L-Cysteine/Membrane Filter Followed by Washing Procedure in Funnel.

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

**Remarks :The tested result of the sample is found to be satisfactory within the specified limit.**

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Units, ISO-International Organization for Standardization, BS-British Standards.

**Signed for and on behalf of Wimpey Laboratories**

**Dr. Suresh Murugan Ph.D**

Senior Microbiologist



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## CONSULTING SERVICE REPORT

<b>CUSTOMER: SERCO FACILITY MANAGEMENT.</b>	<b>To: MR. MUHAMMED AFSHAR OPERATIONS ENGINEER</b>	<b>DATE: 25-06-2020</b>
<b>SITE: ZAYED UNIVERSITY, ABU DHABI</b>	<b>Copy: SERCO</b>	<b>LOCATION: SV2 Building, Male Washroom</b>

### WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTBALE WATER			
pH at 25°C	7.0 - 9.2	8.16			
Conductivity at 25°C, µs/cm	1600 Max.	209			
Total Dissolved Solids (TDS)	1000 Max.	135			
Total Hardness, ppm as CaCO <sub>3</sub>	300 Max.	59			
Calcium Hardness, ppm as CaCO <sub>3</sub>	200 Max.	57			
Chlorides (Cl <sup>-</sup> ), mg/l	250 Max.	53			
Sulphate (SO <sub>4</sub> ), mg/l	250 Max.	<10			
Copper (Cu), mg/l	1 Max.	<0.05			
Aluminum (Al), mg/l	0.2 Max.	<0.05			
Zinc (Zn), mg/l	5 Max.	<0.05			
Nitrate (NO <sub>3</sub> -N) mg/l	50 Max.	<1.0			
Nitrite (NO <sub>2</sub> -) mg/l	3.0 Max.	<0.1			
Fluorides (F)	1.5 Max.	<0.05			
Potassium (K)	12 Max.	<5.0			

#### Treatment Residuals

Odor	Unobjectionabl	ND			
Turbidity in NTU	4.0 Max.	<1			

*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity (µmhos)*

#### COMMENTS:

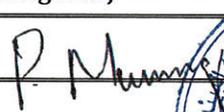
#### ACTION:

The pH levels are high ⇒ Please maintain the desired control limit

#### INVENTORY LEVELS

#### DOSAGE SCHEDULE

Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
			--	

<b>Service Engineer:</b>	Murugaraaj	<b>Client:</b>	Mr. MUHAMMED AFSHAR
<b>Signature:</b>		<b>Signature:</b>	





### Microbiology Test Report

#### Customer Details

#### Crystalline Cleaning & Environmental Services

P.O.Box: 131463 Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE.

Report No. WA-R-L-2006-12437



Request No.	: WA-Q-L-2006-01896	Sample No.	: WA-S-L-2006-12011
Sampling Date	: 25/06/2020	Report Date.	: 29/6/2020
Analysis Start Date.	: 25/06/2020	Analysis End Date.	: 28/6/2020
Sample Location.	: Zayed University	Sampled By	: Jameel
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 1047	Sampling Method	: APHA 9060 A&B
Temperature °C	: 34.3°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: SV2 - Service Building
Sampling Point	: Filter Water Tank - Hydraulic Room	Preservation	: 4-8°C
Sample Description	: Domestic Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	Zero
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml

Note : Not Detected= $\leq$ 1CFU

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

**Remarks :The tested results of the sample are found to be satisfactory within the specified limits.**

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Camden Chorleywood Food Research Association.



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Tel: +971 2 5503324, Fax: +971 2 5503387



Testing - NAL 034

### Microbiology Test Report

Report No. : WA-R-L-2006-12437

Signed for and on behalf of Wimpey Laboratories

**Dr. Suresh Murugan Ph.D**

Senior Microbiologist



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**Legionella Test Report**

**Customer Details**

Report No. WA-R-L-2006-12447

**Crystalline Cleaning & Environmental Services**

P.O.Box: 131463 Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE.



Request No.	: WA-Q-L-2006-01896	Sample No.	: WA-S-L-2006-12021
Sampling Date	: 25/06/2020	Report Date.	: 6/7/2020
Analysis Start Date.	: 25/06/2020	Analysis End Date.	: 5/7/2020
Sample Location.	: Zayed University	Sampled By	: Jameel
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 1047	Sampling Method	: BS 7592
Temperature °C	: 34.3°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: SV2 - Service Building
Sampling Point	: Filter Water Tank - Hydraulic Room	Preservation	: 10°C
Sample Description	: Domestic Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	Zero/L

Note : Limit of Detection=<1CFU/L

Procedure: WSOP-MB-0051 Direct Placing of Membrane on BCYE+L-Cysteine/Membrane Filter Followed by Washing Procedure in Funnel.

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

**Remarks :The tested result of the sample is found to be satisfactory within the specified limit.**

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Units, ISO-International Organization for Standardization, BS-British Standards.

**Signed for and on behalf of Wimpey Laboratories**



**Dr. Suresh Murugan Ph.D**

Senior Microbiologist

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## CONSULTING SERVICE REPORT

<b>CUSTOMER: SERCO FACILITY MANAGEMENT.</b>	<b>To: MR. MUHAMMED AFSHAR OPERATIONS ENGINEER</b>	<b>DATE: 25-06-2020</b>
<b>SITE: ZAYED UNIVERSITY, ABU DHABI</b>	<b>Copy: SERCO</b>	<b>LOCATION: SV2 Building, Filter Water Tank</b>

### WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WATER			
pH at 25°C	7.0 - 9.2	8.20			
Conductivity at 25°C, µs/cm	1600 Max.	245			
Total Dissolved Solids (TDS)	1000 Max.	159			
Total Hardness, ppm as CaCO <sub>3</sub>	300 Max.	59			
Calcium Hardness, ppm as CaCO <sub>3</sub>	200 Max.	55			
Chlorides (Cl <sup>-</sup> ), mg/l	250 Max.	53			
Sulphate (SO <sub>4</sub> ), mg/l	250 Max.	<10			
Copper (Cu), mg/l	1 Max.	<0.05			
Aluminum (Al), mg/l	0.2 Max.	<0.05			
Zinc (Zn), mg/l	5 Max.	<0.05			
Nitrate (NO <sub>3</sub> -N) mg/l	50 Max.	<1.0			
Nitrite (NO <sub>2</sub> -) mg/l	3.0 Max.	<0.1			
Fluorides (F)	1.5 Max.	<0.05			
Potassium (K)	12 Max.	<5.0			

#### Treatment Residuals

Odor	Unobjectionabl	ND			
Turbidity in NTU	4.0 Max.	<1			

*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity (µmhos)*

<b>COMMENTS:</b>	<b>ACTION:</b>
The pH and Conductivity/TDS are found satisfactory. ⇨	No action recommended.

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
			--	
<b>Service Engineer:</b>	Murugaraaj	<b>Client:</b>	Mr. MUHAMMED AFSHAR	
<b>Signature:</b>		<b>Signature:</b>		





### Microbiology Test Report

Report No. WA-R-L-2006-12438

#### Customer Details

#### Crystalline Cleaning & Environmental Services

P.O.Box: 131463 Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE.



Request No.	: WA-Q-L-2006-01896	Sample No.	: WA-S-L-2006-12012
Sampling Date	: 25/06/2020	Report Date.	: 29/6/2020
Analysis Start Date.	: 25/06/2020	Analysis End Date.	: 28/6/2020
Sample Location.	: Zayed University	Sampled By	: Jameel
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 1047	Sampling Method	: APHA 9060 A&B
Temperature °C	: 32.1°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: FDH Male Wash Room
Sampling Point	: Cold Outlet	Preservation	: 4-8°C
Sample Description	: Domestic Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	Zero
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml

Note : Not Detected=<1CFU

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

**Remarks :The tested results of the sample are found to be satisfactory within the specified limits.**

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Camden Chorleywood Food Research Association.



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Testing - NAL 034

### Microbiology Test Report

Report No. : WA-R-L-2006-12438

Signed for and on behalf of Wimpey Laboratories

**Dr. Suresh Murugan Ph.D**

Senior Microbiologist



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**Legionella Test Report**

**Customer Details**

Report No. WA-R-L-2006-12448

**Crystalline Cleaning & Environmental Services**

P.O.Box: 131463 Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE.



Request No.	: WA-Q-L-2006-01896	Sample No.	: WA-S-L-2006-12022
Sampling Date	: 25/06/2020	Report Date.	: 6/7/2020
Analysis Start Date.	: 25/06/2020	Analysis End Date.	: 5/7/2020
Sample Location.	: Zayed University	Sampled By	: Jameel
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 1047	Sampling Method	: BS 7592
Temperature °C	: 32.1°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: FDH Male Wash Room
Sampling Point	: Cold Outlet	Preservation	: 10°C
Sample Description	: Domestic Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	Zero/L

Note : Limit of Detection=<1CFU/L

Procedure: WSOP-MB-0051 Direct Placing of Membrane on BCYE+L-Cysteine/Membrane Filter Followed by Washing Procedure in Funnel.

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

**Remarks :The tested result of the sample is found to be satisfactory within the specified limit.**

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Units, ISO-International Organization for Standardization, BS-British Standards.

**Signed for and on behalf of Wimpey Laboratories**

**Dr. Suresh Murugan Ph.D**

Senior Microbiologist



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## CONSULTING SERVICE REPORT

<b>CUSTOMER: SERCO FACILITY MANAGEMENT.</b>	<b>To: MR. MUHAMMED AFSHAR OPERATIONS ENGINEER</b>	<b>DATE: 25-06-2020</b>
<b>SITE: ZAYED UNIVERSITY, ABU DHABI</b>	<b>Copy: SERCO</b>	<b>LOCATION: FDH Male Washroom</b>

### WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WAER			
pH at 25°C	7.0 - 9.2	8.38			
Conductivity at 25°C, µs/cm	1600 Max.	243			
Total Dissolved Solids (TDS)	1000 Max.	157			
Total Hardness, ppm as CaCO <sub>3</sub>	300 Max.	58			
Calcium Hardness, ppm as CaCO <sub>3</sub>	200 Max.	53			
Chlorides (Cl <sup>-</sup> ), mg/l	250 Max.	49			
Sulphate (SO <sub>4</sub> ), mg/l	250 Max.	<10			
Copper (Cu), mg/l	1 Max.	<0.05			
Aluminum (Al), mg/l	0.2 Max.	<0.05			
Zinc (Zn), mg/l	5 Max.	<0.05			
Nitrate (NO <sub>3</sub> -N) mg/l	50 Max.	<1.0			
Nitrite (NO <sub>2</sub> -) mg/l	3.0 Max.	<0.1			
Fluorides (F)	1.5 Max.	<0.05			
Potassium (K)	12 Max.	<5.0			

#### Treatment Residuals

Odor	Unobjectionabl	ND			
Turbidity in NTU	4.0 Max.	<1			

*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity (µmhos)*

#### COMMENTS:

The pH and Conductivity/TDS are found satisfactory. ⇨

#### ACTION:

No action recommended.

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
			--	
<b>Service Engineer:</b>	Murugaraaj		<b>Client:</b>	Mr. MUHAMMED AFSHAR
<b>Signature:</b>			<b>Signature:</b>	

